



RECEIVED

APR 19 2001

SEQUENCE LISTING

TECH CENTER 1600/2900

<110> Walter, Michael A.  
Jordan, Tim  
Raymond, Vincent

<120> NOVEL MUTATIONS IN THE FREAC3 GENE FOR  
DIAGNOSIS AND PROGNOSIS OF GLAUCOMA AND ANTERIOR SEGMENT  
DYSGENESIS

<130> 07540/020003

<140> US 09/292,862

<141> 1999-04-16

<150> 60/084,784

<151> 1998-05-08

<150> 60/082,206

<151> 1998-04-17

<160> 12

<170> FastSEQ for Windows Version 4.0

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<211> 1978

<212> DNA

<213> Homo sapiens

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 aaaagctaaa ggaacccatc aaggcaaaaat cgaaactaaa aaaaaaaaat ccaattaaaa 1920  
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 35 40 45  
 His Pro Ala His Ala Glu Gln Tyr Pro Gly Gly Met Ala Arg Ala Tyr  
 50 55 60  
 Gly Pro Tyr Thr Pro Gln Pro Gln Pro Lys Asp Met Val Lys Pro Pro  
 65 70 75 80  
 Tyr Ser Tyr Ile Ala Leu Ile Thr Met Ala Ile Gln Asn Ala Pro Asp  
 85 90 95  
 Lys Lys Ile Thr Leu Asn Gly Ile Tyr Gln Phe Ile Met Asp Arg Phe  
 100 105 110  
 Pro Phe Tyr Arg Asp Asn Lys Gln Gly Trp Gln Asn Ser Ile Arg His  
 115 120 125  
 Asn Leu Ser Leu Asn Glu Cys Phe Val Lys Val Pro Arg Asp Asp Lys  
 130 135 140  
 Lys Pro Gly Lys Gly Ser Tyr Trp Thr Leu Asp Pro Asp Ser Tyr Asn  
 145 150 155 160  
 Met Phe Glu Asn Gly Ser Phe Leu Arg Arg Arg Arg Arg Phe Lys Lys  
 165 170 175  
 Lys Asp Ala Leu Lys Asp Lys Glu Glu Lys Asp Arg Leu His Leu Lys  
 180 185 190  
 Glu Pro Pro Pro Pro Gly Ala Ser Pro Arg Pro Ala Pro Pro Glu Gln  
 195 200 205  
 Ala Asp Gly Asn Ala Pro Gly Pro Gln Pro Pro Pro Val Arg Ile Gln  
 210 215 220  
 Asp Ile Lys Thr Glu Asn Gly Thr Cys Pro Ser Pro Pro Gln Pro Leu  
 225 230 235 240  
 Ser Pro Ala Ala Ala Leu Gly Ser Gly Ser Ala Ala Ala Val Pro Lys  
 245 250 255  
 Ile Glu Ser Pro Asp Ser Ser Ser Ser Ser Leu Ser Ser Gly Ser Ser  
 260 265 270  
 Pro Pro Gly Ser Leu Pro Ser Ala Arg Pro Leu Ser Leu Asp Gly Ala  
 275 280 285  
 Asp Ser Ala Pro Pro Pro Pro Ala Pro Ser Ala Pro Pro Pro His His  
 290 295 300  
 Ser Gln Gly Phe Ser Val Asp Asn Ile Met Thr Ser Leu Arg Gly Ser  
 305 310 315 320  
 Pro Gln Ser Ala Ala Ala Glu Leu Ser Ser Gly Leu Leu Ala Ser Ala  
 325 330 335  
 Ala Ala Ser Ser Arg Ala Gly Ile Ala Pro Pro Leu Ala Leu Gly Ala  
 340 345 350

Tyr Ser Pro Gly Gln Ser Ser Leu Tyr Ser Ser Pro Cys Ser Gln Thr  
 355 360 365  
 Ser Ser Ala Gly Ser Ser Gly Gly Gly Gly Gly Gly Ala Gly Ala Ala  
 370 375 380  
 Gly Gly Ala Gly Gly Ala Gly Thr Tyr His Cys Asn Leu Gln Ala Met  
 385 390 395 400  
 Ser Leu Tyr Ala Ala Gly Glu Arg Gly Gly His Leu Gln Gly Ala Pro  
 405 410 415  
 Gly Gly Ala Gly Gly Ser Ala Val Asp Asp Pro Leu Pro Asp Tyr Ser  
 420 425 430  
 Leu Pro Pro Val Thr Ser Ser Ser Ser Ser Ser Leu Ser His Gly Gly  
 435 440 445  
 Gly Gly Gly Gly Gly Gly Gly Gly Gln Glu Ala Gly His His Pro Ala  
 450 455 460  
 Ala His Gln Gly Arg Leu Thr Ser Trp Tyr Leu Asn Gln Ala Gly Gly  
 465 470 475 480  
 Asp Leu Gly His Leu Ala Ser Ala Ala Ala Ala Ala Ala Ala Gly  
 485 490 495  
 Tyr Pro Gly Gln Gln Gln Asn Phe His Ser Val Arg Glu Met Phe Glu  
 500 505 510  
 Ser Gln Arg Ile Gly Leu Asn Asn Ser Pro Val Asn Gly Asn Ser Ser  
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 545 550

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 <212> DNA  
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12

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<400> 6

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